

PATENT  
Customer No. 22,852  
Attorney Docket No. 08702.0039-02000

**AMENDMENTS TO THE CLAIMS:**

This listing of claims replaces all prior versions and listings of claims in this application:

- 1-23. (Cancelled)
- 24. (Previously presented) An isolated polynucleotide comprising:
  - a) nucleotide 1252 through 1543 of Figure 2; or
  - b) nucleotides encoding amino acids 299 through 396 of Figure 2.
- 25. (Cancelled)
- 26. (Previously presented) An isolated polynucleotide comprising nucleotides 1252 through 1543 of Figure 2.
- 27-29. (Cancelled)
- 30. (Previously presented): An isolated polynucleotide comprising nucleotides encoding amino acids 299 through 396 of Figure 2.
- 31-34. (Cancelled)
- 35. (Currently amended) A vector comprising a polynucleotide of claim 24 in operative association with an expression control sequence ~~therefor~~ therefor.
- 36-37. (Cancelled)
- 38. (Previously presented) A host cell transformed with a vector of claim 35.
- 39-40. (Cancelled)
- 41. (Currently amended) An isolated polynucleotide comprising nucleotides of ATCC deposit 40345.

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42. (Currently amended) A method for producing a bone morphogenetic protein, said method comprising the steps of:

a) culturing a host cell transformed with a polynucleotide of ~~claim 33~~ claim 24,  
and

b) recovering said bone morphogenetic protein.

43-49. (Cancelled)

50. (New) An isolated bone morphogenetic protein, wherein said protein is produced by the method of claim 42.

51. (New) A BMP-2 made by the method of claim 42.

52. (New) An isolated BMP-2 polypeptide comprising an amino acid sequence encoded by a polynucleotide of claim 26.

53. (New) An isolated BMP-2 polypeptide comprising an amino acid sequence encoded by a polynucleotide of claim 30.

54. (New) An isolated BMP-2 protein comprising an amino acid sequence of amino acid 299 through 396 of Figure 2.